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ABSTRACT OF THE DISCLOSURE

The present invention relates to a voice recognition system.

The prior voice recognition system has had difficulties in embodying an ASIC. And it is therefore difficult to be applied to actual life because it has to handle software only or construct a complex system using DSP.

The present invention presents a voice recognition external noise system that is insensitive to applicable to actual life bу comprising an A/Danalog voice signals converter that converts digital signals; an FIR filtering section that employs powers-of-two conversion to filter the digital signals numbers the A/Dconverter into converted at a characteristic extraction section that channels; extracts voice characteristics immediately strong noise-resistance from the output signals of the filtering section without using additional FIR word boundary detection section that memories; а discriminates the information of the start-point and the end-point of voice signal on the basis of the bу the characteristic characteristics extracted extraction section; and a normalization/recognition section that codes and outputs the final result by carrying out a timing normalization and a classifying process using a radial basis function(RBF) neural network on the basis of the voice characteristics provided by the characteristic extraction section and the information of the start-point and the end-point of voice signal from the word boundary detection section.